

Clean version of the claims:

1. (amended) A method for the transportation of hydrogen fluoride from a point of origin to a destination point, said method comprising the steps of:

adding at said point of origin a sulfone to the hydrogen fluoride to form a liquid mixture;

A. thereafter transporting by transportation means for transferring said liquid mixture from said point of origin to said destination point, wherein said transportation means comprises a closed volume selected from the group consisting of tank cars, tank trucks and portable vessels, and wherein said liquid mixture fills less than the entire volume of said closed volume to form a vapor space therein and wherein the percent partial pressure of hydrogen fluoride in said vapor space is less than 100 molar percent and wherein the pressure within said vapor space is less than 30 psig.

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2. (amended) A method as recited in claim 1, further comprising: separating at said destination point said liquid mixture into a sulfone phase and a hydrogen fluoride phase.

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7. (amended) A method for handling and transportation of hydrogen fluoride, said method comprising the step of:

receiving at a destination point a volume of a liquid mixture comprising hydrogen fluoride and sulfone by way of transportation means for

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transferring said volume from a point of origin to said destination point, said transportation means comprises a closed volume selected from the group consisting of tank cars, tank trucks and portable vessels, and wherein said liquid mixture fills less than the entire volume of said closed volume to form a vapor space therein and wherein the percent partial pressure of hydrogen fluoride in said vapor space is less than 100 molar percent and wherein the pressure within said vapor space is less than 30 psig.

8. (amended) A method as recited in claim 7, further comprising:
separating at said destination point said liquid mixture into a sulfone phase and a hydrogen fluoride phase.

9. (amended) A method as recited in claim 8, further comprising:
returning said sulfone phase to said point of origin; and
adding at said point of origin said sulfone phase to hydrogen fluoride to form said liquid mixture.

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10. (amended) A method as recited in claim 9 wherein said liquid mixture includes a weight ratio of sulfone to hydrogen fluoride in the range from about 1:100 to about 100:1.

13. (amended) A method for handling and transportation of hydrogen fluoride, said method comprising the step of:

transporting by transportation means for transferring a liquid mixture comprising hydrogen fluoride and a sulfone from a point of origin to a destination point, said transportation means comprises a closed volume selected from the group consisting of tank cars, tank trucks and portable vessels, and wherein said liquid mixture fills less than the entire volume of said closed volume to form a vapor space therein and wherein the percent partial pressure of hydrogen fluoride in said vapor space is less than 100 molar percent and wherein the pressure within said vapor space is less than 30 psig.

14. (amended) A method as recited in claim 13 wherein said liquid mixture includes a weight ratio of sulfone to hydrogen fluoride in the range of from about 1:100 to about 100:1.

16. (amended) A method for the transportation of hydrogen fluoride from a point of origin to a destination point, said method comprising the steps of:

adding at said point of origin a sulfone to the hydrogen fluoride to form a liquid mixture; and

thereafter transporting said liquid mixture by transportation means for transferring a discrete volume of said liquid mixture from said point of origin to said destination point.

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17. (amended) A method as recited in claim 16 wherein said transportation means comprises a closed volume selected from the group consisting of tank cars, tank trucks, and portable vessels including tanks, drums, barrels and bottles, and wherein said liquid mixture fills less than the entire volume of said closed volume to form a vapor space therein and wherein the percent partial pressure of hydrogen fluoride in said vapor space is less than 100 molar percent and wherein the pressure within said vapor space is less than 30 psig.

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23. (amended) A method as recited in claim 22 wherein said liquid mixture includes a weight ratio of sulfone to hydrogen fluoride in the range of from about 1:100 about 100:1.

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33. (amended) A method as recited in claim 32 wherein said liquid mixture includes a weight ratio of sulfone to hydrogen fluoride in the range of from about 1:100 about 100:1.

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